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December 28, 2017

VIA ELECTRONIC FILING

The Honorable Jocelyn G. Boyd
Chief Clerk/Administrator
Public Service Commission of South Carolina
101 Executive Center Drive, Suite 100
Columbia, South Carolina 29210

Re: **Duke Energy Progress, LLC – Monthly Fuel Report**
Docket No. 2006-176-E

Dear Ms. Boyd:

Pursuant to the Commission's Orders in Docket No. 1977-354-E, enclosed for filing is Duke Energy Progress, LLC's Monthly Fuel Report in Docket No. 2006-176-E for the month of November 2017.

Should you have any questions regarding this matter, please do not hesitate to contact me at 803-988-7130.

Sincerely,

A handwritten signature in blue ink, appearing to read "Rebecca Dulin", written in a cursive style.

Rebecca J. Dulin

Enclosure

cc: Service List

**Duke Energy Progress
Summary of Monthly Fuel Report**

Schedule 1

Line No.	Item	November 2017
1	Fuel and Fuel-related Costs excluding DERP incremental costs	\$ 104,183,024
	MWH sales:	
2	Total System Sales	5,130,128
3	Less intersystem sales	634,448
4	Total sales less intersystem sales	4,495,680
5	Total fuel and fuel-related costs (¢/KWH) (Line 1/Line 4)	2.3174
6	Current fuel & fuel-related cost component (¢/KWH) (per Schedule 4)	2.5167
	Generation Mix (MWH):	
	Fossil (By Primary Fuel Type):	
7	Coal	401,777
8	Oil	13,072
9	Natural Gas - Combustion Turbine	187,869
10	Natural Gas - Combined Cycle	1,760,470
11	Total Fossil	2,363,189
12	Nuclear	2,615,984
13	Hydro - Conventional	35,240
14	Solar Distributed Generation	16,099
15	Total MWH generation	5,030,512

Note: Detail amounts may not add to totals shown due to rounding.

Schedule 2

**Duke Energy Progress
Details of Fuel and Fuel-Related Costs**

<u>Description</u>	<u>November 2017</u>
Fuel and Fuel-Related Costs:	
Steam Generation - Account 501	
0501110 coal consumed - steam	\$ 14,268,396
0501310 fuel oil consumed - steam	752,184
Total Steam Generation - Account 501	<u>15,020,580</u>
Nuclear Generation - Account 518	
0518100 burnup of owned fuel	17,647,588
Other Generation - Account 547	
0547000 natural gas consumed - Combustion Turbine	7,945,073
0547000 natural gas consumed - Combined Cycle	50,490,631
0547200 fuel oil consumed	1,678,469
Total Other Generation - Account 547	<u>60,114,173</u>
Purchased Power and Net Interchange - Account 555	
Fuel and fuel-related component of purchased power	25,583,651
Fuel and fuel-related component of DERP purchases	-
PURPA purchased power capacity	3,517,629
DERP purchased power capacity	-
Total Purchased Power and Net Interchange - Account 555	<u>29,101,280</u>
Less fuel and fuel-related costs recovered through intersystem sales - Account 447	18,246,255
Total Costs Included in Base Fuel Component	\$ 103,637,366
Environmental Costs	
0509030, 0509212, 0557451 emission allowance expense	\$ 1,683
0502020, 0502030, 0502040, 0502080, 0502090, 0548020 reagents expense	573,081
Emission Allowance Gains	-
Less reagents expense recovered through intersystem sales - Account 447	(4,168)
Less emissions expense recovered through intersystem sales - Account 447	<u>33,274</u>
Total Costs Included in Environmental Component	545,658
Fuel and Fuel-related Costs excluding DERP incremental costs	<u>\$ 104,183,024</u>
DERP Incremental Costs	117,047
Total Fuel and Fuel-related Costs	<u>\$ 104,300,071</u>

Notes: Detail amounts may not add to totals shown due to rounding.

Firm natural gas transportation and storage fees of \$11,123,697 is included in the 0547000 natural gas consumed lines above.

**DUKE ENERGY PROGRESS
PURCHASED POWER AND INTERCHANGE
SOUTH CAROLINA**

NOVEMBER 2017

**Schedule 3, Purchases
Page 1 of 2**

Purchased Power	Total	Capacity	Non-capacity		
Marketers, Utilities, Other	\$	\$	mWh	Fuel \$	Non-fuel \$
Broad River Energy, LLC.	\$ 2,393,791	\$ 1,077,461	23,564	\$ 1,316,330	-
City of Fayetteville	365,107	357,200	(8)	7,907	-
Haywood EMC	29,850	29,850	-	-	-
NCEMC	2,509,962	1,823,909	16,797	686,053	-
PJM Interconnection, LLC.	5,707	-	249	5,707	-
Southern Company Services	2,230,724	882,336	32,939	1,348,388	-
DE Carolinas - Native Load Transfer	1,013,850	-	37,513	1,025,521	\$ (11,671)
DE Carolinas - Native Load Transfer Benefit	41,782	-	-	41,782	-
Energy Imbalance	(76)		(2)	(67)	(9)
Generation Imbalance	(49,758)		(750)	(30,353)	(19,405)
	\$ 8,540,939	\$ 4,170,756	110,302	\$ 4,401,268	\$ (31,085)
Act 236 PURPA Purchases					
Renewable Energy	\$ 17,084,450	\$ -	274,655	\$ 17,084,450	-
Other Qualifying Facilities	7,615,562	-	140,559	7,615,562	-
	\$ 24,700,012	\$ -	415,214	\$ 24,700,012	\$ -
Total Purchased Power	\$ 33,240,951	\$ 4,170,756	525,516	\$ 29,101,280	\$ (31,085)

NOTE: Detail amounts may not add to totals shown due to rounding.

DUKE ENERGY PROGRESS
 INTERSYSTEM SALES*
 SOUTH CAROLINA

NOVEMBER 2017

Schedule 3, Sales
 Page 2 of 2

Sales	Total	Capacity	Non-capacity		
	\$	\$	mWh	Fuel \$	Non-fuel \$
Utilities:					
SC Electric & Gas - Emergency	\$ 28,832	-	703	\$ 24,646	\$ 4,186
SC Public Service Authority - Emergency	(22,277)	-	-	-	(22,277)
Market Based:					
NCEMC Purchase Power Agreement	750,847	\$ 652,500	2,533	127,356	(29,009)
PJM Interconnection, LLC.	609	-	49	2,244	(1,635)
Other:					
DE Carolinas - Native Load Transfer Benefit	2,366,988	-	-	2,366,988	-
DE Carolinas - Native Load Transfer	16,348,502	-	631,138	15,754,127	594,375
Generation Imbalance	63	-	25	-	63
Total Intersystem Sales	\$ 19,473,564	\$ 652,500	634,448	\$ 18,275,361	\$ 545,703

* Sales for resale other than native load priority.

NOTE: Detail amounts may not add to totals shown due to rounding.

Duke Energy Progress
(Over) / Under Recovery of Fuel Costs
November 2017

Schedule 4
Page 1 of 3

Line No.			Total Residential	General Service Non-Demand	Demand	Lighting	Total
1	Actual System kWh sales	Input					4,495,679,608
2	DERP Net Metered kWh generation	Input					710,617
3	Adjusted System kWh sales	L1 + L2					4,496,390,225
4	Actual S.C. Retail kWh sales	Input	134,485,077	20,946,710	310,462,616	6,780,127	472,674,530
5	DERP Net Metered kWh generation	Input	231,934	9,394	469,289		710,617
6	Adjusted S.C. Retail kWh sales	L4 + L5	134,717,011	20,956,104	310,931,905	6,780,127	473,385,147
7	Actual S.C. Demand units (kw)	L32 / 31b *100			665,214		
Base fuel component of recovery - non-capacity							
8	Incurred System base fuel - non-capacity expense	Input					\$88,996,043
9	Eliminate avoided fuel benefit of S.C. net metering	Input					\$22,759
10	Adjusted Incurred System base fuel - non-capacity expense	L8 + L9					\$89,018,802
11	Adjusted Incurred System base fuel - non-capacity rate (¢/kWh)	L10 / L3 * 100					1.980
12	S.C. Retail portion of adjusted incurred system expense	L6 * L11 / 100	\$2,667,105	\$414,886	\$6,155,779	\$134,232	\$9,372,002
13	Assign 100 % of Avoided Fuel Benefit of S.C net metering	Input	(\$12,197)	(\$1,230)	(\$9,332)	\$0	(\$22,759)
14	S.C. Retail portion of incurred system expense	L12 + L13	\$2,654,908	\$413,656	\$6,146,447	\$134,232	\$9,349,243
15	Billed base fuel - non-capacity rate (¢/kWh) - Note 1	Input	2.211	2.210	2.210	2.210	2.210
16	Billed base fuel - non-capacity revenue	L4 * L15 /100	\$2,973,042	\$462,922	\$6,861,224	\$149,841	\$10,447,029
17	DERP NEM incentive - fuel component	Input	(\$3,396)	(\$343)	(\$2,598)	\$0	(\$6,337)
18	Adjusted S.C. billed base fuel - non-capacity revenue	L16 + L17	\$2,969,646	\$462,579	\$6,858,626	\$149,841	\$10,440,692
19	S.C. base fuel - non-capacity (over)/under recovery [See footnote]	L18 - L14	(\$314,738)	(\$48,923)	(\$712,179)	(\$15,609)	(\$1,091,449)
20	Adjustment - Economic Purchases	Input	\$0	\$0	\$0	\$0	\$0
21	Total S.C. base fuel - non-capacity (over)/under recovery [See footnote]	L19 + L20	(\$314,738)	(\$48,923)	(\$712,179)	(\$15,609)	(\$1,091,449)
Base fuel component of recovery - capacity							
22a	Incurred base fuel - capacity rates by class (¢/kWh)	L23 / L4 * 100	0.613	0.397			
22b	Incurred base fuel - capacity rate (¢/kW)	L23 / L7 * 100			95		
23	Incurred S.C. base fuel - capacity expense	Input	\$824,981	\$83,230	\$631,174		\$1,539,385
24a	Billed base fuel - capacity rates by class (¢/kWh)	Input	0.472	0.371			
24b	Billed base fuel - capacity rate (¢/kW)	Input			96		
25	Billed S.C. base fuel - capacity revenue	L24a * L4 /100	\$634,124	\$77,712	\$ 638,587	\$0	\$1,350,423
26	S.C. base fuel - capacity (over)/under recovery [See footnote]	L25 - L23	\$190,857	\$5,518	(7,413.00)	\$0	\$188,962
27	Adjustment	Input	\$0	\$0	\$0	\$0	\$0
28	Total S.C. base fuel - capacity (over)/under recovery [See footnote]	L26 + L27	\$190,857	\$5,518	(\$7,413)	\$0	\$188,962
Environmental component of recovery							
29a	Incurred environmental rates by class (¢/kWh)	L30 / L4 * 100	0.023	0.015			
29b	Incurred environmental rate (¢/kW)	L30 / L7 * 100			4		
30	Incurred S.C. environmental expense	Input	\$30,746	\$3,102	\$23,523		\$57,371
31a	Billed environmental rates by class (¢/kWh)	Input	0.035	0.024			
31b	Billed environmental rate (¢/kW)	Input			7		
32	Billed S.C. environmental revenue	L31a * L4 /100	\$46,725	\$5,027	\$ 46,565		\$98,317
33	S.C. environmental (over)/under recovery [See footnote]	L32 - L30	(\$15,979)	(\$1,925)	(\$23,042)	\$0	(\$40,946)
34	Adjustment	Input	\$0	\$0	\$0	\$0	\$0
35	Total S.C. environmental (over)/under recovery [See footnote]	L33 + L34	(\$15,979)	(\$1,925)	(\$23,042)	\$0	(\$40,946)
Distributed Energy Resource Program component of recovery: avoided costs							
36a	Incurred S.C. DERP avoided cost rates by class (¢/kWh)	L37 / L4 * 100	0.000	0.000			
36b	Incurred S.C. DERP avoided cost rates by class (¢/kW)	L37 / L7 * 100			0.000		
37	Incurred S.C. DERP avoided cost expense	Input	-	-	-		\$0
38a	Billed S.C. DERP avoided cost rates by class (¢/kWh)	Input	0.000	0.000			
38b	Billed S.C. DERP avoided cost rates by class (¢/kW)	Input			0.000		
39	Billed S.C. DERP avoided cost revenue	L38a * L4 /100	\$0	\$0	\$0		\$0
40	S.C. DERP avoided cost (over)/under recovery [See footnote]	L39 - L37	\$0	\$0	\$0	\$0	\$0
41	Adjustment	Input	\$0	\$0	\$0	\$0	\$0
42	Total S.C. DERP avoided cost (over)/under recovery [See footnote]	L40 + L41	\$0	\$0	\$0	\$0	\$0
43	Total (over)/under recovery [See footnote]	L21 + L28 + L35 + L42	(\$139,860)	(\$45,330)	(\$742,634)	(\$15,609)	(\$943,433)

Duke Energy Progress
(Over) / Under Recovery of Fuel Costs
November 2017

Line No.			Residential	Commercial	Industrial	Total
Distributed Energy Resource Program component of recovery: incremental costs						
44	Incurred S.C. DERP incremental expense	Input	\$62,727	\$32,193	\$22,127	\$117,047
45	Billed S.C. DERP incremental rates by account (\$/account)	Input	1.00	2.88	99.56	
46	Billed S.C. DERP incremental revenue	Input	\$137,477	\$92,884	\$26,407	\$256,768
47	S.C. DERP incremental (over)/under recovery [See footnote]	L44 - L46	(\$74,750)	(\$60,691)	(\$4,280)	(\$139,721)
48	Adjustment	Input	\$0	\$0	\$0	\$0
49	Total S.C. DERP incremental (over)/under recovery [See footnote]	L47 + L48	(\$74,750)	(\$60,691)	(\$4,280)	(\$139,721)

Year 2017-2018					
Cumulative (over) / under recovery					
_/2 Balance ending February 2017					
March 2017 - actual					
April 2017 - actual					
May 2017 - actual					
June 2017 - actual					
July 2017 - actual					
August 2017 - actual					
September 2017 - actual					
October 2017 - actual					
November 2017 - actual					
December 2017 - forecast					
January 2018 - forecast					
February 2018 - forecast					
March 2018 - forecast					
April 2018 - forecast					
May 2018 - forecast					
June 2018 - forecast					

Notes:

Detail amounts may not recalculate due to percentages presented as rounded.

Presentation of over or under collected amounts reflects a regulatory asset or liability. Over collections, or regulatory liabilities, are shown as negative amounts.

Under collections, or regulatory assets, are shown as positive amounts.

_/1 Total residential billed fuel rate is a composite rate reflecting the approved residential rate of 2.246 and RECD 5% discount.

_/2 February 2017 ending balance reflects total adjustments of \$(129,849) pursuant to the docket no. 2017-1-E directive.

Duke Energy Progress
Fuel and Fuel Related Cost Report
November 2017

Schedule 5
Page 1 of 2

Description	Weatherspoon CT	Lee CC	Sutton CC/CT	Robinson Nuclear	Asheville Steam	Asheville CT	Roxboro Steam	Mayo Steam
Cost of Fuel Purchased (\$)								
Coal	-	-	-	-	\$2,735,098	-	\$21,822,731	\$1,007,832
Oil	-	-	-	(784)	1,982,826	-	581,026	28,187
Gas - CC	-	19,656,703	14,194,436	-	-	-	-	-
Gas - CT	-	-	690,482	-	-	31,827	-	-
Total	-	\$19,656,703	\$14,884,918	(\$784)	\$4,717,924	\$31,827	\$22,403,757	\$1,036,019
Average Cost of Fuel Purchased (¢/MBTU)								
Coal	-	-	-	-	311.96	-	309.95	331.98
Oil	-	-	-	-	1,440.98	-	1,339.54	1,365.65
Gas - CC	-	402.81	463.16	-	-	-	-	-
Gas - CT	-	-	455.41	-	-	-	-	-
Weighted Average	-	402.81	462.80	-	465.11	0.00	316.25	338.96
Cost of Fuel Burned (\$)								
Coal	-	-	-	-	\$2,563,189	-	\$11,705,207	-
Oil - CC	-	-	-	-	-	-	-	-
Oil - Steam/CT	13,996	-	-	-	120,123	1,647,246	632,061	-
Gas - CC	-	19,656,703	14,194,436	-	-	-	-	-
Gas - CT	-	-	690,482	-	-	31,827	-	-
Nuclear	-	-	-	3,943,818	-	-	-	-
Total	\$13,996	\$19,656,703	\$14,884,918	\$3,943,818	\$2,683,312	\$1,679,073	\$12,337,268	-
Average Cost of Fuel Burned (¢/MBTU)								
Coal	-	-	-	-	304.77	-	319.93	-
Oil - CC	-	-	-	-	-	-	-	-
Oil - Steam/CT	1,508.19	-	-	-	1,377.87	1,357.37	1,467.90	-
Gas - CC	-	402.81	463.16	-	-	-	-	-
Gas - CT	-	-	455.41	-	-	-	-	-
Nuclear	-	-	-	69.31	-	-	-	-
Weighted Average	1,508.19	402.81	462.80	69.31	315.78	1,383.59	333.28	-
Average Cost of Generation (¢/kWh)								
Coal	-	-	-	-	4.17	-	3.38	-
Oil - CC	-	-	-	-	-	-	-	-
Oil - Steam/CT	-	-	-	-	22.10	18.85	15.93	-
Gas - CC	-	2.89	3.25	-	-	-	-	-
Gas - CT	-	-	4.34	-	-	-	-	-
Nuclear	-	-	-	0.70	-	-	-	-
Weighted Average	-	2.89	3.29	0.70	4.32	19.21	3.52	-
Burned MBTU's								
Coal	-	-	-	-	841,012	-	3,658,733	-
Oil - CC	-	-	-	-	-	-	-	-
Oil - Steam/CT	928	-	-	-	8,718	121,356	43,059	-
Gas - CC	-	4,879,913	3,064,675	-	-	-	-	-
Gas - CT	-	-	151,616	-	-	-	-	-
Nuclear	-	-	-	5,689,715	-	-	-	-
Total	928	4,879,913	3,216,291	5,689,715	849,730	121,356	3,701,792	-
Net Generation (mWh)								
Coal	-	-	-	-	61,525	-	346,174	(5,922)
Oil - CC	-	-	-	-	-	-	-	-
Oil - Steam/CT	(31)	-	-	-	544	8,741	3,968	-
Gas - CC	-	679,552	436,803	-	-	-	-	-
Gas - CT	-	-	15,902	-	-	-	-	-
Nuclear	-	-	-	560,667	-	-	-	-
Hydro (Total System)								
Solar (Total System)								
Total	(31)	679,552	452,705	560,667	62,069	8,741	350,142	(5,922)
Cost of Reagents Consumed (\$)								
Ammonia	-	-	-	-	-	-	-	\$9,149
Limestone	-	-	-	-	83,361	-	323,520	-
Re-emission Chemical	-	-	-	-	-	-	-	-
Sorbents	-	-	-	-	9,639	-	64,301	-
Urea	-	-	-	-	64,300	-	-	-
Total	-	-	-	-	\$157,301	-	\$387,821	\$9,149

Notes:

Detail amounts may not add to totals shown due to rounding.

Schedule excludes in-transit, terminal and tolling agreement activity.

Cents/MBTU and cents/kWh are not computed when costs and/or net generation is negative.

Fuel cost information on this report does not reflect intercompany sharing of fuel-related merger savings between Duke Energy Carolinas and Duke Energy Progress.

Lee and Wayne oil burn is associated with inventory consumption shown on Schedule 6 for Wayne.

Duke Energy Progress
Fuel and Fuel Related Cost Report
November 2017

Schedule 5
Page 2 of 2

Description	Brunswick Nuclear	Blewett CT	Wayne County CT	Darlington CT	Smith Energy Complex CC/CT	Harris Nuclear	Current Month	Total 12 ME November 2017
Cost of Fuel Purchased (\$)								
Coal	-	-	-	-	-	-	\$25,565,661	\$308,269,650
Oil	17,304	-	-	-	-	(2,746)	2,605,813	19,209,365
Gas - CC	-	-	-	-	16,639,492	-	50,490,631	607,042,957
Gas - CT	-	-	113,973	23,156	7,085,635	-	7,945,073	75,362,869
Total	\$17,304	-	\$113,973	\$23,156	\$23,725,127	(\$2,746)	\$86,607,178	\$1,009,884,841
Average Cost of Fuel Purchased (¢/MBTU)								
Coal	-	-	-	-	-	-	310.97	314.91
Oil	1,676.74	-	-	-	-	-	1,415.63	1,305.43
Gas - CC	-	-	-	-	370.07	-	405.85	418.56
Gas - CT	-	-	362.23	294.08	371.16	-	378.34	384.06
Weighted Average	1,676.74	-	362.23	294.08	370.40	-	377.44	382.38
Cost of Fuel Burned (\$)								
Coal	-	-	-	-	-	-	\$14,268,396	\$282,036,724
Oil - CC	-	-	-	-	208	-	208	237,738
Oil - Steam/CT	-	4,113	5,048	-	7,858	-	2,430,445	21,647,948
Gas - CC	-	-	-	-	16,639,492	-	50,490,631	607,042,957
Gas - CT	-	-	113,973	23,156	7,085,635	-	7,945,073	75,362,869
Nuclear	8,972,167	-	-	-	-	4,731,603	17,647,588	201,848,292
Total	\$8,972,167	\$4,113	\$119,021	\$23,156	\$23,733,193	\$4,731,603	\$92,782,341	\$1,188,176,528
Average Cost of Fuel Burned (¢/MBTU)								
Coal	-	-	-	-	-	-	317.09	311.11
Oil - CC	-	-	-	-	1,600.00	-	1,600.00	1,804.03
Oil - Steam/CT	-	1,665.04	1,746.71	-	1,661.33	-	1,388.27	1,421.60
Gas - CC	-	-	-	-	370.07	-	405.85	418.56
Gas - CT	-	-	362.23	294.08	371.16	-	378.34	384.06
Nuclear	63.05	-	-	-	-	65.45	65.00	64.96
Weighted Average	63.05	1,665.04	374.83	294.08	370.50	65.45	200.11	209.34
Average Cost of Generation (¢/kWh)								
Coal	-	-	-	-	-	-	3.55	3.40
Oil - CC	-	-	-	-	20.80	-	20.80	18.46
Oil - Steam/CT	-	-	21.98	-	19.35	-	18.59	18.56
Gas - CC	-	-	-	-	2.58	-	2.87	2.99
Gas - CT	-	-	5.20	6.01	4.18	-	4.23	4.28
Nuclear	0.66	-	-	-	-	0.68	0.67	0.68
Weighted Average	0.66	-	5.38	11.41	2.92	0.68	1.84	1.96
Burned MBTU's								
Coal	-	-	-	-	-	-	4,499,745	90,654,477
Oil - CC	-	-	-	-	13	-	13	13,178
Oil - Steam/CT	-	247	289	-	473	-	175,070	1,522,785
Gas - CC	-	-	-	-	4,496,264	-	12,440,852	145,031,307
Gas - CT	-	-	31,464	7,874	1,909,055	-	2,100,009	19,622,899
Nuclear	14,231,279	-	-	-	-	7,229,301	27,150,295	310,728,135
Total	14,231,279	247	31,753	7,874	6,405,805	7,229,301	46,365,984	567,572,781
Net Generation (mWh)								
Coal	-	-	-	-	-	-	401,777	8,306,233
Oil - CC	-	-	-	-	1	-	1	1,288
Oil - Steam/CT	-	(32)	23	(182)	41	-	13,071	116,612
Gas - CC	-	-	-	-	644,115	-	1,760,470	20,293,291
Gas - CT	-	-	2,190	385	169,392	-	187,869	1,762,294
Nuclear	1,358,237	-	-	-	-	697,080	2,615,984	29,503,568
Hydro (Total System)							35,240	462,326
Solar (Total System)							16,099	254,912
Total	1,358,237	(32)	2,213	203	813,549	697,080	5,030,512	60,700,524
Cost of Reagents Consumed (\$)								
Ammonia	-	-	-	-	\$18,810	-	\$27,959	\$1,605,327
Limestone	-	-	-	-	-	-	406,881	8,624,626
Re-emission Chemical	-	-	-	-	-	-	-	138,408
Sorbents	-	-	-	-	-	-	73,940	2,258,607
Urea	-	-	-	-	-	-	64,300	969,511
Total	-	-	-	-	\$18,810	-	\$573,081	\$13,596,478

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<u>Description</u>	<u>Weatherspoon</u>	<u>Lee</u>	<u>Sutton</u>	<u>Robinson</u>	<u>Asheville</u>
Coal Data:					
Beginning balance	-	-	-	-	131,911
Tons received during period	-	-	-	-	34,428
Inventory adjustments	-	-	-	-	-
Tons burned during period	-	-	-	-	32,166
Ending balance	-	-	-	-	134,173
MBTUs per ton burned	-	-	-	-	26.15
Cost of ending inventory (\$/ton)	-	-	-	-	79.69
Oil Data:					
Beginning balance	605,449	-	2,645,302	78,040	2,856,086
Gallons received during period	-	-	-	-	997,125
Miscellaneous use and adjustments	(25)	-	-	-	(3,551)
Gallons burned during period	6,633	-	-	-	932,421
Ending balance	598,791	-	2,645,302	78,040	2,917,239
Cost of ending inventory (\$/gal)	2.11	-	2.80	2.54	1.90
Gas Data:					
Beginning balance	-	-	-	-	-
MCF received during period	-	4,697,484	3,122,740	-	-
MCF burned during period	-	4,697,484	3,122,740	-	-
Ending balance	-	-	-	-	-
Limestone/Lime Data:					
Beginning balance	-	-	-	-	13,705
Tons received during period	-	-	-	-	1,922
Inventory adjustments	-	-	-	-	-
Tons consumed during period	-	-	-	-	1,708
Ending balance	-	-	-	-	13,919
Cost of ending inventory (\$/ton)	-	-	-	-	46.69

Notes:

Detail amounts may not add to totals shown due to rounding.

Schedule excludes in-transit, terminal and tolling agreement activity.

Gas is burned as received; therefore, inventory balances are not maintained.

The oil inventory data for Wayne reflects the common usage of the oil tank used for both Wayne and Lee units.

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Description	Roxboro	Mayo	Brunswick	Blewett	Wayne County
Coal Data:					
Beginning balance	1,110,783	435,957	-	-	-
Tons received during period	278,735	11,726	-	-	-
Inventory adjustments	-	-	-	-	-
Tons burned during period	145,718	-	-	-	-
Ending balance	1,243,800	447,683	-	-	-
MBTUs per ton burned	25.11	-	-	-	-
Cost of ending inventory (\$/ton)	80.30	81.10	-	-	-
Oil Data:					
Beginning balance	337,302	283,126	173,517	771,225	11,938,542
Gallons received during period	314,309	14,954	7,480	-	-
Miscellaneous use and adjustments	-	(489)	-	-	-
Gallons burned during period	312,042	-	4,688	1,756	2,097
Ending balance	339,569	297,591	176,309	769,469	11,936,445
Cost of ending inventory (\$/gal)	2.03	2.05	2.54	2.34	2.41
Gas Data:					
Beginning balance	-	-	-	-	-
MCF received during period	-	-	-	-	30,415
MCF burned during period	-	-	-	-	30,415
Ending balance	-	-	-	-	-
Limestone/Lime Data:					
Beginning balance	112,360	19,776	-	-	-
Tons received during period	319	24	-	-	-
Inventory adjustments	-	-	-	-	-
Tons consumed during period	8,237	-	-	-	-
Ending balance	104,442	19,800	-	-	-
Cost of ending inventory (\$/ton)	36.54	39.96	-	-	-

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Description	Darlington	Smith Energy Complex	Harris	Current Month	Total 12 ME November 2017
Coal Data:					
Beginning balance	-	-	-	1,678,651	1,563,444
Tons received during period	-	-	-	324,889	3,864,668
Inventory adjustments	-	-	-	-	(54,922)
Tons burned during period	-	-	-	177,884	3,547,534
Ending balance	-	-	-	1,825,656	1,825,656
MBTUs per ton burned	-	-	-	25.30	25.55
Cost of ending inventory (\$/ton)	-	-	-	80.45	80.45
Oil Data:					
Beginning balance	9,884,871	8,132,141	279,820	37,985,421	38,724,539
Gallons received during period	-	-	-	1,333,868	10,663,033
Miscellaneous use and adjustments	-	-	-	(4,065)	(182,726)
Gallons burned during period	-	3,469	6,471	1,269,577	11,159,199
Ending balance	9,884,871	8,128,672	273,349	38,045,647	38,045,647
Cost of ending inventory (\$/gal)	2.36	2.32	2.54	2.36	2.36
Gas Data:					
Beginning balance	-	-	-	-	-
MCF received during period	7,703	6,217,803	-	14,076,145	158,981,038
MCF burned during period	7,703	6,217,803	-	14,076,145	158,981,038
Ending balance	-	-	-	-	-
Limestone/Lime Data:					
Beginning balance	-	-	-	145,841	124,250
Tons received during period	-	-	-	2,265	240,482
Inventory adjustments	-	-	-	-	(10,276)
Tons consumed during period	-	-	-	9,945	216,295
Ending balance	-	-	-	138,161	138,161
Cost of ending inventory (\$/ton)	-	-	-	38.05	38.05

Schedule 7

DUKE ENERGY PROGRESS
ANALYSIS OF COAL PURCHASED
NOVEMBER 2017

STATION	TYPE	QUANTITY OF TONS DELIVERED	DELIVERED COST	DELIVERED COST PER TON
ASHEVILLE	SPOT	-	-	-
	CONTRACT	34,428	\$ 2,672,344	\$ 77.62
	ADJUSTMENTS	-	62,754	-
	TOTAL	34,428	2,735,098	79.44
MAYO	SPOT	-	-	-
	CONTRACT	11,726	940,018	80.17
	ADJUSTMENTS	-	67,814	-
	TOTAL	11,726	1,007,832	85.95
ROXBORO	SPOT	-	-	-
	CONTRACT	278,735	21,415,276	76.83
	ADJUSTMENTS	-	407,455	-
	TOTAL	278,735	21,822,731	78.29
ALL PLANTS	SPOT	-	-	-
	CONTRACT	324,889	25,027,638	77.03
	ADJUSTMENTS	-	538,023	-
	TOTAL	324,889	\$ 25,565,661	\$ 78.69

Schedule 8

**DUKE ENERGY PROGRESS
ANALYSIS OF COAL QUALITY RECEIVED
NOVEMBER 2017**

STATION	PERCENT MOISTURE	PERCENT ASH	HEAT VALUE	PERCENT SULFUR
ASHEVILLE	6.06	9.29	12,733	2.18
MAYO	6.06	7.87	12,945	2.76
ROXBORO	6.37	9.61	12,630	1.73

Schedule 9

**DUKE ENERGY PROGRESS
ANALYSIS OF OIL PURCHASED
NOVEMBER 2017**

	<u>ASHEVILLE</u>	<u>ASHEVILLE</u>	<u>BRUNSWICK</u>	<u>MAYO</u>	<u>ROXBORO</u>
VENDOR	Potter Oil and Tire	Indigo	Selma Tank Farm	Greensboro Tank Farm	Greensboro Tank Farm & Selma Tank Farm
SPOT/CONTRACT	Spot	Contract	Contract	Contract	Contract
SULFUR CONTENT %	0	0	0	0	0
GALLONS RECEIVED	367,177	629,948	7,480	14,954	314,309
TOTAL DELIVERED COST	\$ 739,551	\$ 1,243,274	\$ 17,304	\$ 28,187	\$ 581,026
DELIVERED COST/GALLON	\$ 2.01	\$ 1.97	\$ 2.31	\$ 1.88	\$ 1.85
BTU/GALLON	138,000	138,000	138,000	138,000	138,000

Note:

Price adjustments of \$(2,746) and \$(784) for the Harris and Robinson stations, respectively, are excluded.

Duke Energy Progress
Power Plant Performance Data
Twelve Month Summary
December, 2016 - November, 2017
Nuclear Units

<u>Unit Name</u>	<u>Net Generation (mWh)</u>	<u>Capacity Rating (mW)</u>	<u>Capacity Factor (%)</u>	<u>Equivalent Availability (%)</u>
Brunswick 1	8,200,544	938	99.80	98.18
Brunswick 2	7,167,376	932	87.79	90.31
Harris 1	8,212,397	928	101.02	98.11
Robinson 2	5,923,251	741	91.25	88.10

**Duke Energy Progress
Power Plant Performance Data
Twelve Month Summary
December, 2016 through November, 2017
Combined Cycle Units**

Unit Name		Net Generation (mWh)	Capacity Rating (mW)	Capacity Factor (%)	Equivalent Availability (%)
Lee Energy Complex	1A	1,468,840	223	75.19	82.65
Lee Energy Complex	1B	1,449,141	222	74.52	83.49
Lee Energy Complex	1C	1,467,479	223	75.12	82.14
Lee Energy Complex	ST1	2,793,245	379	84.13	92.01
Lee Energy Complex	Block Total	7,178,705	1,047	78.27	86.11
Richmond County CC	7	1,218,548	189	73.60	81.65
Richmond County CC	8	1,195,184	189	72.19	80.54
Richmond County CC	ST4	1,389,985	175	90.67	89.31
Richmond County CC	9	1,409,537	214	75.19	80.70
Richmond County CC	10	1,439,353	214	76.78	82.16
Richmond County CC	ST5	1,903,876	248	87.70	91.58
Richmond County CC	Block Total	8,556,483	1,229	79.49	84.49
Sutton Energy Complex	1A	1,429,306	225	72.52	82.10
Sutton Energy Complex	1B	1,421,183	225	72.10	81.70
Sutton Energy Complex	ST1	1,715,973	267	73.37	92.97
Sutton Energy Complex	Block Total	4,566,462	717	72.70	86.02

Notes:

- Effective January 2017, a change in capacity rating methodology could impact performance trending against historical results reported prior to January 2017.
- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.

**Duke Energy Progress
Power Plant Performance Data
Twelve Month Summary
December, 2016 through November, 2017**

Intermediate Steam Units

Unit Name	Net Generation (mWh)	Capacity Rating (mW)	Capacity Factor (%)	Equivalent Availability (%)
Mayo 1	1,347,366	746	20.62	86.12
Roxboro 2	1,596,928	673	27.09	90.93
Roxboro 3	2,289,426	698	37.44	89.53
Roxboro 4	1,162,304	711	18.66	60.91

Notes:

- Effective January 2017, a change in capacity rating methodology could impact performance trending against historical results reported prior to January 2017.
- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.

**Duke Energy Progress
Power Plant Performance Data
Twelve Month Summary
December, 2016 through November, 2017
Other Cycling Steam Units**

Unit Name	Net Generation (mWh)	Capacity Rating (mW)	Capacity Factor (%)	Operating Availability (%)
Asheville 1	561,869	192	33.41	72.13
Asheville 2	651,488	192	38.73	84.93
Roxboro 1	760,340	380	22.84	86.42

Notes:

- Effective January 2017, a change in capacity rating methodology could impact performance trending against historical results reported prior to January 2017.
- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.

**Duke Energy Progress
Power Plant Performance Data
Twelve Month Summary
December, 2016 through November, 2017
Combustion Turbine Stations**

Station Name	Net Generation (mWh)	Capacity Rating (mW)	Operating Availability (%)
Asheville CT	102,512	370	92.00
Blewett CT	-182	68	98.08
Darlington CT	73,814	911	83.54
Richmond County CT	1,440,690	916	88.24
Sutton CT	-296	76	98.87
Sutton Fast Start CT	64,534	90	89.60
Wayne County CT	127,457	959	95.70
Weatherspoon CT	-181	164	81.27

Notes:

- Effective January 2017, a change in capacity rating methodology could impact performance trending against historical results reported prior to January 2017.
- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.

**Duke Energy Progress
Power Plant Performance Data**

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**Twelve Month Summary
December, 2016 through November, 2017
Hydroelectric Stations**

Station Name	Net Generation (mWh)	Capacity Rating (mW)	Operating Availability (%)
Blewett	81,010	27.0	76.93
Marshall	3,711	4.0	24.11
Tillery	117,813	84.0	94.03
Walters	259,792	113.0	99.19

Notes:

- Effective January 2017, a change in capacity rating methodology could impact performance trending against historical results reported prior to January 2017.
- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.